



IFWO

## RAW SEQUENCE LISTING

DATE: 09/01/2004

PATENT APPLICATION: US/10/800,497

TIME: 13:00:46

Input Set : N:\Crf3\RULE60\10800497.raw

Output Set: N:\CRF4\09012004\J800497.raw

1 <110> APPLICANT: Sun, Lee-Hwei K  
 2 Sun, Bill  
 3 Sun, Cecily R  
 4 <120> TITLE OF INVENTION: Fc fusion proteins of human granulocyte colony-  
 5 stimulaing factor with  
 6 increased biological activities  
 7 <130> FILE REFERENCE: 03SUN2001  
 8 <140> CURRENT APPLICATION NUMBER: US/10/800,497  
 9 <141> CURRENT FILING DATE: 2004-03-15  
 10 <150> PRIOR APPLICATION NUMBER: US/09/968,362  
 11 <151> PRIOR FILING DATE: 2001-10-01  
 12 <160> NUMBER OF SEQ ID NOS: 28  
 13 <170> SOFTWARE: PatentIn version 3.1  
 15 <210> SEQ ID NO: 1  
 16 <211> LENGTH: 30  
 17 <212> TYPE: DNA  
 18 <213> ORGANISM: Artificial Sequence  
 19 <220> FEATURE:  
 20 <223> OTHER INFORMATION: PCR primer  
 21 <400> SEQUENCE: 1  
 22 cccaagcttc ccagacccat ggctggacct  
 24 <210> SEQ ID NO: 2  
 25 <211> LENGTH: 27  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Artificial sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: PCR primer  
 30 <400> SEQUENCE: 2  
 31 cggatccggg ctgggcaagg tggcgta  
 33 <210> SEQ ID NO: 3  
 34 <211> LENGTH: 20  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: PCR primer  
 39 <400> SEQUENCE: 3  
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 42 <210> SEQ ID NO: 4  
 43 <211> LENGTH: 28  
 44 <212> TYPE: DNA  
 45 <213> ORGANISM: Artificial Sequence  
 46 <220> FEATURE:  
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ENTERED

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49      ggaattctca tttaaccgga gacagggga                28
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52 <211> LENGTH: 29
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: PCR primer
57 <400> SEQUENCE: 5
58      tggttttctc gatggaggct gggaggcct                29
60 <210> SEQ ID NO: 6
61 <211> LENGTH: 29
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
64 <220> FEATURE:
65 <223> OTHER INFORMATION: PCR primer
66 <400> SEQUENCE: 6
67      aggctcccca gcctccatcg agaaaacca                29
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70 <211> LENGTH: 69
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: PCR primer
75 <400> SEQUENCE: 7
76      cggatccggt ggcggttccg gtggaggcgg aagcggcggt ggaggatcag agcgcaaattg        60
77      ttgtgtcga                                           69
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80 <211> LENGTH: 21
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: PCR primer
85 <400> SEQUENCE: 8
86      gagtccaaat atggtccccc a                            21
88 <210> SEQ ID NO: 9
89 <211> LENGTH: 28
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: PCR primer
94 <400> SEQUENCE: 9
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98 <211> LENGTH: 21
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: PCR primer

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103 <400> SEQUENCE: 10
104      cctgagttcg cggggggacc a                                21
106 <210> SEQ ID NO: 11
107 <211> LENGTH: 60
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: PCR primer
112 <400> SEQUENCE: 11
113      gagtccaaat atggtccccc atgccaccca tgcccagcac ctgagttcgc gggggggacca    60
115 <210> SEQ ID NO: 12
116 <211> LENGTH: 70
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: PCR primer
121 <400> SEQUENCE: 12
122      cggatccggt ggcggttcgc gtggaggcgg aagcggcggg ggaggatcag agtccaaata    60
123      tggcccccca                                70
125 <210> SEQ ID NO: 13
126 <211> LENGTH: 21
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: PCR primer
131 <400> SEQUENCE: 13
132      gacaaaactc acacatgccc a                                21
134 <210> SEQ ID NO: 14
135 <211> LENGTH: 23
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: PCR primer
140 <400> SEQUENCE: 14
141      acctgaagtc gcggggggac cgt                                23
143 <210> SEQ ID NO: 15
144 <211> LENGTH: 55
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: PCR primer
149 <400> SEQUENCE: 15
150      gacaaaactc acacatgccc accgtgccca gcacctgaag tcgcgggggg accgt    55
152 <210> SEQ ID NO: 16
153 <211> LENGTH: 70
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: PCR primer

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158 <400> SEQUENCE: 16
159      cggatccggt ggcgggtccg gtggaggcgg aagcggcggg ggaggatcag acaaaaactca      60
160      cacatgccca
161
162 <210> SEQ ID NO: 17
163 <211> LENGTH: 1368
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: hG-CSF-L-vFc gamma2 (Figure 2A)
168 <400> SEQUENCE: 17
169      aagcttccca gacccatggc tggacctgcc acccagagcc ccatgaagct gatggccctg      60
170      cagctgctgc tgtggcacag tgcactctgg acagtgcagg aagccacccc cctgggcccct      120
171      gccagctccc tgccccagag ctctctgctc aagtgtctag agcaagttag gaagatccag      180
172      ggcgatggcg cagcgctcca ggagaagctg tgtgccacct acaagctgtg ccaccccgag      240
173      gagctggtgc tgcctggaca ctctctgggc atccccctggg ctccccctgag cagctgcccc      300
174      agccaggccc tgcagctggc aggctgcttg agccaaactcc atagcggcct ttctctctac      360
175      caggggctcc tgcaggccct ggaagggatc tcccccgagt tgggtcccac cttggacaca      420
176      ctgcagctgg acgtcgccga ctttgccacc accatctggc agcagatgga agaactggga      480
177      atggcccctg ccctgcagcc caccagggtg gccatgccgg ccttcgcctc tgetttccag      540
178      cgccgggcag gaggggctct agttgcctcc catctgcaga gcttctctga ggtgtcgtac      600
179      cgcgttctac gccaccttgc ccagcccgga tccggtggcg gttccggtgg aggcggaagc      660
180      ggcggtggag gatcagagcg caaatgttgt gtcgagtgcc caccgtgccc agcaccacct      720
181      gtggcaggac cgtcagctct cctcttcccc ccaaaaccca aggacaccct catgatctcc      780
182      cggaccccctg aggtcacgtg cgtgggtggtg gacgtgagcc acgaagaccc cgagggtccag      840
183      ttcaactggt acgtggacgg cgtggaggtg cataatgcc aagacaaagcc acgggaggag      900
184      cagttcaaca gcacgttccg tgtggtcagc gtcttcaccg ttgtgcacca ggactggctg      960
185      aacggcaagg agtacaagtg caaggtctcc aacaaaggcc tcccagcctc catcgagaaa      1020
186      accatctcca aaaccaaagg gcagcccga gaaccacagg tgtacaccct gccccatcc      1080
187      cgggaggaga tgaccaagaa ccaggtcagc ctgacctgcc tgggtcaaagg cttctacccc      1140
188      agcgacatcg ccgtggagtg ggagagcaat gggcagccgg agaacaacta caagaccaca      1200
189      cctcccatgc tggactccga cggctccttc ttctctaca gcaagctcac cgtggacaag      1260
190      agcaggtggc agcaggggaa cgtcttctca tgctccgtga tgcattgaggc tctgcacaac      1320
191      cactacacgc agaagagcct ctccctgtct ccgggtaaat gagaattc      1368
192
193 <210> SEQ ID NO: 18
194 <211> LENGTH: 448
195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: hG-CSF-L-vFc gamma2 with a 30-amino acid leader
199      peptide (Figure
200      2A)
201 <400> SEQUENCE: 18
202      Met Ala Gly Pro Ala Thr Gln Ser Pro Met Lys Leu Met Ala Leu Gln
203      1          5          10          15
204      Leu Leu Leu Trp His Ser Ala Leu Trp Thr Val Gln Glu Ala Thr Pro
205      20          25          30
206      Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu
207      35          40          45
208      Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys

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Input Set : N:\Crif3\RULE60\10800497.raw

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209          50          55          60
210 Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu
211 65          70          75          80
212 Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser
213          85          90          95
214 Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu
215          100          105          110
216 Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu
217          115          120          125
218 Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala
219          130          135          140
220 Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu
221          145          150          155          160
222 Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg
223          165          170          175
224 Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu
225          180          185          190
226 Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Gly Ser Gly Gly
227          195          200          205
228 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Arg Lys Cys
229          210          215          220
230 Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser
231          225          230          235          240
232 Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg
233          245          250          255
234 Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro
235          260          265          270
236 Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala
237          275          280          285
238 Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val
239          290          295          300
240 Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr
241          305          310          315          320
242 Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Ser Ile Glu Lys Thr
243          325          330          335
244 Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu
245          340          345          350
246 Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys
247          355          360          365
248 Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser
249          370          375          380
250 Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp
251          385          390          395          400
252 Ser Asp Gly Ser Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser
253          405          410          415
254 Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala
255          420          425          430
256 Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys
257          435          440          445

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 09/01/2004  
PATENT APPLICATION:    US/10/800,497      TIME: 13:00:47

Input Set : N:\Crf3\RULE60\10800497.raw  
Output Set: N:\CRF4\09012004\J800497.raw

Valid Line Length:

rules require that a line not exceed 72 characters in length. This includes spaces.

#:20; Line(s) 295

#:22; Line(s) 393

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/800,497

DATE: 09/01/2004

TIME: 13:00:47

Input Set : N:\Crf3\RULE60\10800497.raw

Output Set: N:\CRF4\09012004\J800497.raw